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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/769,364	01/30/2004	John P. Vanderhoef	2601.105	7921	
Jerry M. Presso	7590 12/28/200	EXAMINER			
95 Golden Hill	Road		GILBERT, WILLIAM V		
Trumbull, CT 06611		•	ART UNIT	PAPER NUMBER	
			3635		
	•				
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE		
3 MONTHS		12/28/2006	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		<del></del>	Application No.	Applicant(s)				
Office Action Summary		10/769,364		VANDERHOEF, JOHN P.				
		-	Examiner	Art Unit	1			
			William V. Gilbert	3635				
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Status								
1) 又	Responsive to communication(s) file	ed on <i>30 Jan</i>	uary 2004		,			
2a)□		·	action is non-final.					
=	<u></u>							
-/	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims			,				
4)🖂	4)⊠ Claim(s) <u>1-28</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠								
7)🖂	Claim(s) 2-4,6-15 and 21 is/are objection	ected to.						
8)□	Claim(s) are subject to restri	ction and/or	election requirement.					
Applicati	on Papers							
9)[	The specification is objected to by the	ne Examiner.	•	·				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any object	ection to the dr	awing(s) be held in abeya	nce. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including	g the correctio	n is required if the drawing	g(s) is objected to. See 37 C	FR 1.121(d).			
11)	The oath or declaration is objected t	o by the Exa	miner. Note the attache	d Office Action or form P	TO-152,			
Priority ι	ınder 35 U.S.C. § 119				,			
12)	Acknowledgment is made of a claim	for foreign p	riority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a)	☐ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority				·			
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
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Attachmen	• •		<b>∆</b> □ 1=4==3	Summer (DTO 440)				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (I	PTO-948)		Summary (PTO-413) (s)/Mail Date				
3) 🔯 Infor	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>1/30/04</u> .	·	5) Notice of Other:	Informal Patent Application				

#### DETAILED ACTION

This is a First Action on the Merits. Claims 1-28 are pending and examined as set forth below.

# Claim Objections

1. Claim 16 is objected to because of the following informalities: Examiner believes a misplaced comma, page 19, line 11 and misspelled "interlocks", line 11 which Examiner believes Applicant intended "interlock". Appropriate correction is required.

### Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 and 16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1 and 16 contain prolix. A Claim may be rejected for prolix when the claims contain such long recitations that the metes and bounds of the claimed subject matter cannot be

determined. See MPEP 2173.05(m). The Examiner has concluded that Applicant claims a tile, yet the limitations in the claims are confusing to the extent that the metes and bounds of the claimed limitations cannot be determined. Applicant should amend these claims so the metes and bounds may be determined. No new matter may be entered.

For example, Claim 1: Applicant claims "male elements", page 15, line 16, claims "said second interlock sets", line 16, claims "inner and outer laterally spaced sidewalls", line 18, then claims "said second element sidewalls". This language is unclear as to what Applicant is referring, especially as to which "sidewall": the inner or outer sidewall. Another example is Claim 1: "said second interlock pair", page 15, line 23. Applicant Claims "interlock elements", page 15, line 3, and "pair of support edges", line 9. It is unclear to what Applicant is referring. Another example is Claim 16: Applicant claims "first pair of adjoining interlock edges", page 19, line 7, and then refers to, at least how the Examiner interprets, the "first pair of edges". Another example in Claim 16: Applicant claims "first and second interlock support edges", page 19, line 7, later claims "a plurality of longitudinally disposed first and second structures", line 13, then refers to "said first and second interlock structures" line 19. Again, it is unclear to

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what Applicant is referring in "interlock structures": the "interlock support edge" or the "structures". It is lack of consistency that is throughout the claims that makes these independent claims and dependent claims confusing so as be interpreted by one of ordinary skill in the art.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear as to how, at least according to reading Claim 1 along with the drawings, the "top surfaces of the first pair of support edges extending substantially flush with the top surface of said central portion," page 14, lines 14-16, and then later have "said first and second sets of interlocks on said first pair of said support edges facing the plane of the top tile surface...", page 15, lines 7, 8. The same applies for "said first and second set of interlocks on said second pair of said support edges facing the plane of the bottom tile surface", page 15, lines 8, 9. Clarification is required.

Claim 1 recites the limitation "a plurality of second sets of adjoining male and female disposed", lines 4, 5. Examiner is not sure as to what "male and female" limitations Applicant is

referring. Examiner assumed Applicant intended "male and female interlocks".

Claim 1 recites the limitation "second set of interlocks" in page 15, line 7, "said male interlocks" on line 10, "the male elements of said first interlock sets", lines 13, 14 and "the male elements of said second interlock sets", line 16. There is insufficient antecedent basis for these limitations in the claim

Claim 5 recites the limitations "said opposing surfaces" in line 1, and "said channel" on lines 1, 2. There is insufficient antecedent basis for these limitations in the claim. It is unclear if Applicant is referring to "contiguous channel" Claim 4, line 1, or "continuous open-ended channel", Claim 4, line 2.

Claim 16 recites the limitation "the sidewalls" in page 19, line 14 and "said structures on the surface of said second pair of edges" on line 15. There is insufficient antecedent basis for these limitations in the claim.

Claims 17, 18, 19, 20 and 23 recite the limitation "said first walled structure[s]" in Claim 17, lines 1, 2, Claim 18, lines 1, 2, Claim 19, line 3, Claim 20, line 2 and Claim 23,

line 1. There is insufficient antecedent basis for this limitation in the claim.

Claims 22, 24 and 25 recite the limitation "said second walled structure" in Claim 22, lines 1, 2, Claim 24, lines 1, 2 and Claim 25, lines 1, 2. There is insufficient antecedent basis for this limitation in the claim.

# Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 26-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Austin (U.S. Patent No. 5,630,304).

Claim 26: Austin discloses an edge interlock system (Figure 2, element 13) having a plurality of male interlock elements (see element "A" from attached Figure 2 from Austin, below), at an equal first spaced apart distance from one another along a mid section of the edge, a second plurality of male elements (see "B" below) at a second spaced distance, and the second

distance is greater than the first distance, with inverted identical interlock systems (Figure 2, element 41).

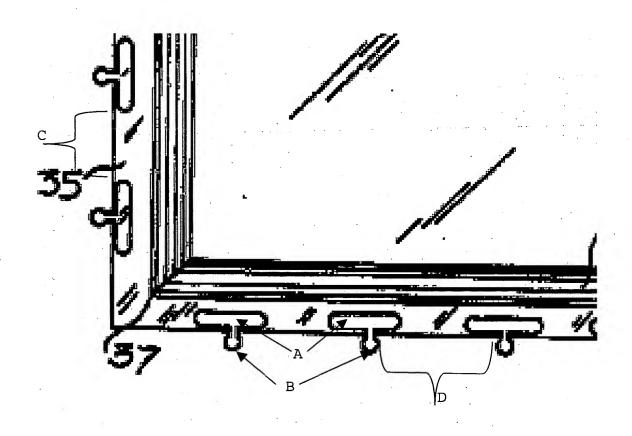


Figure 2 from Austin

Claim 27: a first open channel section ("C" above) traverses along the edge between the first interlock elements ("A" above) and a second channel ("D" above) is between the second elements and the second channel has a greater width than the first channel, and it extends from the mid-section.

Claim 28: the second interlock elements ("B" above) are disposed adjacent opposite ends of the edge (Figure 2, generally).

# Allowable Subject Matter

4. Claims 1 and 16 are allowable subject to further review once the rejections from 35 U.S.C. 112 are addressed.

Claim 1: the prior art of record does not disclose the second interlock sets as having a wall member as having inner and outer laterally spaced sidewalls with the wall member extending transversely between the inner and outer edges of the support edge.

Claim 16: the prior art of record does not disclose structures on the first pair of edges having inner and outer spaced apart sidewalls traversing the support edge from which it projects, and the inner sidewall of each second structure forms an open-ended cavity.

Claims 2-15 and 17-25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Further review will be required once the 35 U.S.C. 112 rejections have been addressed.

#### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Johnston (U.S. Patent No. 3,077,426), Macdonald (U.S. Patent No. 6,526,705), Skandis (U.S. Patent No. 6,098,354), Stegner et al. (U.S. Patent No. 6,751,912), Collette (U.S. Patent No. 4,287,693), Bushey et al. (U.S. Publication 2003/0093964), Council et al. (U.S. Patent No. 5,950,378), Ettlinger, Jr. et al. (U.S. Patent No. 3,909,996), Austin, (U.S. Patent No. 5,907,934), Carling et al. (U.S. Patent No. 5,992,106).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William V. Gilbert whose telephone number is 571.272.9055. The examiner can normally be reached on Monday - Friday, 08:00 to 17:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Naoko Slack can be reached on 571.272.6848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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